

Efficacy Trials - Injection Method

Poison Hemlock

Conium maculatum L.

Submitted: Clark County Weed Management
Philip Burgess, Director

Focus: Efficacy Results of Injection Method used on Poison Hemlock

Process: Injection Method

Dates(s): 05/23/05

Location(s): St. Johns Road, Corner of 99th Street

Method of Control:

Injection with 5 mL Roundup Pro Concentrate at three separate rates:

5% solution v/v H₂O

50% solution v/v H₂O

8% solution v/v H₂O

Treatment Notes:

One stem of each plant was injected, typically 6" above the base of the plant
Plants were at pre-flower stage, and ranged in height from 4' to 8'

Control Results:

All three trial plots showed effective control

Non-target Effect:

No observable effects to non-target species

Conclusion/Recommendations

The results indicate the lowest rate of treatment was successful in stopping growth of the plant, with results evident within seven days

Efficacy Trial Results On Poison Hemlock

Site name	St Johns
Address	Corner of 99th Street and St Johns
Plot #	Plot #1
Reference #	
Treatment Date	May 23, 2005
Treatment Method	
Treatment Method	Injection Method
Herbicide	Roundup Pro Concentrate
Injection Dosage	5 mL @ 5%, 1 injection per plant
Treatment Area	
Area Treated	n/a
Total number of plants in area (rhizomic connection?)	n/a
Number of plants/stems actually treated	3 plants
Plant phenology	
Plant phenology	Pre-flower
Typical plant height	4 ft
Typical plant stem diameter	5/8"
Follow-up Date(s)	
Date	June 1, 2005
Observations:	Leaves wilted Tan color Upper 12" to 16" of cane curled over
Control Percentage:	
Of plants/stems treated, # controlled	3
Control percentage	100%
Number Plants Controlled:	
Total # of plants controlled (rhizomic connection?)	n/a
Notes:	
5 mL @ 5% -- Effective Control	

Efficacy Trial Results On Poison Hemlock	
Site name	St Johns
Address	Corner of 99th St and St Johns
Plot #	Plot #2
Reference #	
Treatment Date	May 23, 2005
Treatment Method	
Treatment Method	Injection Method
Herbicide	Roundup Pro Concentrate
Injection Dosage	5 mL @ 50/50 v/v solution H2O
Treatment Area	
Area Treated	n/a
Total number of plants in area (rhizomic connection?)	n/a
Number of plants/stems actually treated	4
Plant phenology	
Plant phenology	pre-flower
Typical plant height	8 ft.
Typical plant stem diameter	3/4"
Follow-up Date(s)	
Date	June 1, 2005
Observations:	leaves wilted, tan in color, plants still uprights tems light green at base fading to yellow
Date	June 16, 2005
Observations:	Plants tan throughout, Appear dead
Control Percentage:	
Of plants/stems treated, # controlled	4/all
Control percentage	100%
Number Plants Controlled:	
Total # of plants controlled (rhizomic connection?)	n/a
Notes:	
5 mL @ 50/50 v/v solution H2O -- Effective Control	

Efficacy Trial Results On Poison Hemlock

Site name	St. Johns
Address	same
Plot #	Plot #3
Reference #	
Treatment Date	May 23, 2005
Treatment Method	
Treatment Method	Injection Method
Herbicide	Roundup Pro Concentrate
Injection Dosage	5 mL @ 8% v/v H2O
Treatment Area	
Area Treated	n/a
Total number of plants in area (rhizomic connection?)	n/a
Number of plants/stems actually treated	7
Plant phenology	
Plant phenology	pre-flower
Typical plant height	6'-8'
Typical plant stem diameter	9/16" - 1 1/4"
Follow-up Date(s)	
Date	June 1, 2005
Observations:	Canes drooping leaves all light tan to pale yellow Only one stem per plant injected, all stems showing same signs as stem injected
Date	June 16, 2005
Observations:	Plant all yellow/brown and appears dead.
Control Percentage:	
Of plants/stems treated, # controlled	7/ all 7
Control percentage	100%
Number Plants Controlled:	
Total # of plants controlled (rhizomic connection?)	n/a
Notes:	
5 mL @ 8% v/v H2O -- Efficacy evident	